ATG TOG ACA GCC TCC GCC Met Ser Thr Ala Ser Ala

1

MAC AMA ACC CIT TOT ACT TAT TAC CAG CAM TGC MAM AMA CAM CTA GAG 1854

Asa Lys Ser Leu Ser The Tyr Tyr Gla Gla Cys Lys Lys Gla Leu Glu

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TCG CAG GTC CTO AAC ITG GAA GAG ATC GAC TAC AAG GAG ATC GAG GTG

Ser Gig Val Leu Aad Pho Gig Giu lie Aap Tyr Lya Gig lie Gig Val

INVENTOR: IRIE KENJI; 25 30 34

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//(C12N 9/12 , C12R 1:91), (C12N 9/12 , C12R 1:685), (C12N 9/12 , C12R 1:865), (C12N 9/12 , C12R

C12H 1:865), (C12N 9/12 , C12H 555 580 585 1:19) GTC ATC AGA AGC CAG CAG CAG CAG CAG GGC ACT TCA TGATTCTCTG

Val IIc Arg Ser Gin Gin Lys Arg Clu Giy Thr Ser

TITLE : NEW KINASE BEARING INFORMATION

TRANSMISSION SYSTEM OF

TGF-BETA FAMILY

ABSTRACT: PROBLEM TO BE SOLVED: To obtain a new DNA coding a kinase-active polypeptide

subject to activation by a transforming growth factor- β having a specific amino acid sequence, and to be used for e.g. producing enzymes useful for retrieving medicinal

agents suppressing or promoting information transmission.

SOLUTION: This new DNA is such one as to code a kinase-active polypeptide subject to activation by a transforming growth factor- β (TGF- β) having the amino acid sequence covering the 23rd Ser through 579th Ser of an amino acid sequence of the formula, or an amino acid sequence modified by addition or elimination of one to several amino acids to or from the above partial amino acid sequence, and/or by substitution with other amino acid(s). This DNA is useful for e.g. producing kinase-active polypeptides useful for e.g. retrieving medicinal agents suppressing or promoting cell information transmission. This new DNA is obtained by screening with a probe a cDNA library prepared by using a mRNA collected from a mouse interleukin-3 dependent cell system.

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